```
GOPIKRISHNA V
S4 CSE A
52
FACTORIAL
echo "FACTORIAL OF 'n'"
echo -n "Enter 'n' >> "
read n
fact=1
z=0
if [ $n == $z ] ; then
      echo "FACTORIAL OF 0 >> 1"
else
      for((i=2;i<=n;i++))
      do
             fact=$((fact*i))
      done
fi
```

echo -n "FACTORIAL OF '\$n' >> \$fact"

echo

## SIMPLE CALCULATOR

```
echo "SIMPLE CALCULATOR"
echo -n "Enter NUM 1 = "
read num1
echo -n "Enter NUM 2 [ != 0 ] = "
read num2
ch=0
while [ $ch != 5 ];
do
  echo "
                MENU"
  echo $"1.ADD 2.SUB 3.MUL 4.DIV 5.EXIT"
  echo -n "Enter Choice [1,2,3,4,5] >> "
  read ch
  if [ $ch == 1 ];
  then
    result=$((num1+num2))
    echo "RESULT >> $result"
  fi
  if [ $ch == 2 ];
  then
    result=$((num1-num2))
    echo "RESULT >> $result"
  fi
  if [ $ch == 3 ];
    result=$((num1*num2))
    echo "RESULT >> $result"
  if [ $ch == 4 ];
  then
    result=$((num1/num2))
    echo "RESULT >> $result"
  fi
```

done

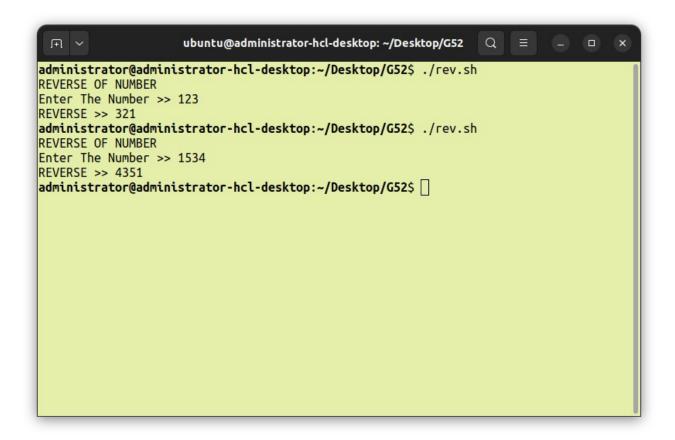
```
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                    ubuntu@administrator-hcl-desktop: ~/Desktop/G52
                                                               Q = - 0
administrator@administrator-hcl-desktop:~/Desktop/G52$ ./calc.sh
SIMPLE CALCULATOR
Enter NUM 1 = 4
Enter NUM 2 [ != 0 ] = 2
             MENU
1.ADD 2.SUB 3.MUL 4.DIV 5.EXIT
Enter Choice [1,2,3,4,5] >> 4
RESULT >> 2
              MENU
1.ADD 2.SUB 3.MUL 4.DIV 5.EXIT
Enter Choice [1,2,3,4,5] >> 3
RESULT >> 8
              MENU
1.ADD 2.SUB 3.MUL 4.DIV 5.EXIT
Enter Choice [1,2,3,4,5] >> 2
RESULT >> 2
              MENU
1.ADD 2.SUB 3.MUL 4.DIV 5.EXIT
Enter Choice [1,2,3,4,5] >> 1
RESULT >> 6
              MENU
1.ADD 2.SUB 3.MUL 4.DIV 5.EXIT
Enter Choice [1,2,3,4,5] >> 5
administrator@administrator-hcl-desktop:~/Desktop/G52$
```

## **GREATEST OF 3 NUMBERS**

```
echo "Greatest Of 3 Numbers"
echo -n "Enter the num1 = "
read num1
echo -n "Enter the num2 = "
read num2
echo -n "Enter the num3 = "
read num3
if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]
then
  echo "Greatest Of 3 NUMs = $num1"
elif [ $num2 -gt $num3 ];
then
  echo "Greatest Of 3 NUMs = $num2"
else
  echo "Greatest Of 3 NUMs = $num3"
fi
```

```
⊕ ~
                     ubuntu@administrator-hcl-desktop: ~/Desktop/G52
administrator@administrator-hcl-desktop:~/Desktop/G52$ gedit gof3.sh
administrator@administrator-hcl-desktop:~/Desktop/G52$ ./gof3.sh
Greatest Of 3 Numbers
Enter the num1 = 1
Enter the num2 = 2
Enter the num3 = 3
Greatest Of 3 NUMs = 3
administrator@administrator-hcl-desktop:~/Desktop/G52$ ./gof3.sh
Greatest Of 3 Numbers
Enter the num1 = 3
Enter the num2 = 2
Enter the num3 = 123
Greatest Of 3 NUMs = 123
administrator@administrator-hcl-desktop:~/Desktop/G52$
```

## REVERSE OF A NUMBER



## FIBONACCI SERIES

echo

```
echo "FIBONACCI SERIES"

n1=0
n2=1
n3=$((n1+n2))

echo -n "Enter Limit >> "
read lim

echo -n "FIBONACCI SERIES upto $lim >> "
echo -n "$n1 $n2"
for (( i=3 ; i <= lim ; ++i ))
do

echo -n " $n3"
n1=$n2
n2=$n3
n3=$((n1+n2))
done
```